Warm Up. Name the property that each equation illustrates.

Commutative Associative

Distributive

a) 
$$-3 \cdot \frac{1}{3} = 1$$

d) 
$$3(8 \cdot 0) = (3 \cdot 8)0$$

Inverse

Associative

b) 
$$(-3+4)+5=-3+(4+5)$$

**e)** p + q = q + p

Associative

Commutative

c) 
$$2 + 0 = 2$$

f) 
$$np = pn$$

Identity

Commutative

## Review of the Distributive Property



Fill in the prompts below with a partner or small group.

I can recognize the distributive property is needed because I will see...

The distributive property means I will have to...

 $\checkmark$  When you see distributive property, do it first!!!





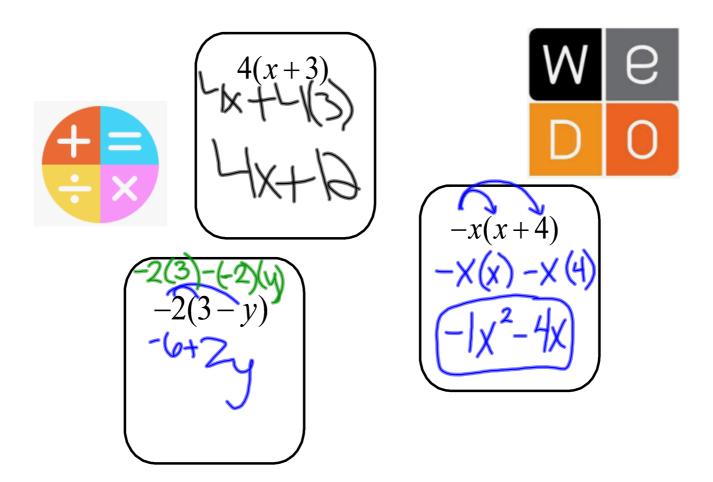












1) Yessenia simplified an expression as shown below:



Given:	x + 6 + 3(x + 4)
Step 1:	x + 9(x + 4)
Step 2:	x + 9x + 36
Step 3:	10x + 36

In which step did Yessenia make a mistake?

She didn't distribute first.

What should she have sone instead?

2) Sierra simplified an expression as shown below:

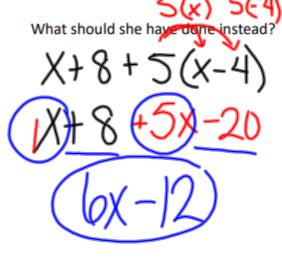
Given:	x + 8 + 5(x - 4)
Step 1:	x + 8 + 5x - 20
Step 2:	5x + 8 – 20
Step 3:	5x – 12



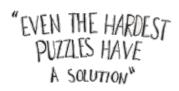
just do it.

In which step did Sierra make a mistake?

She didn't add like-torms Correctly.



3) Jose simplified an expression as shown below:





Given:	x + 3 + 7(x - 5)
Step 1:	x + 3 + 7x – 5
Step 2:	8x + 3 – 5
Step 3:	8x – 2

In which step did Jose make a mistake?

What should he have done instead?

## Warm Up

- Take 5 minutes to complete the sprint you collected from the back
- Turn it in
- Open your packet to the page for writing corrections on the sprint





Name:	Score
Distributive Property Sprint	/10

 ${\it Directions:} \ {\tt INDEPENTENTLY} \ simplify \ {\tt each} \ {\tt expression} \ completely \ below. \ Write \ your \ {\tt answer} \ on \ the \ line \ provided.$ 

- 1. 5(x + 3)
- 2. -4(x+2)
- 3. x(3 y)
- 4. -z(4+z)
- 5. -7(-a-3)